

English Language Abstract for DE 3850987

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Permeable film prodn. from mixt. of polyolefin and filler - by extruding

to film, melt embossing to impose differing thicknesses, and stretching

Patent Assignee: EXXON CHEM PATENTS INC (ESSO )

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Number of Countries: 015 Number of Patents: 007

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
EP 283200	A	19880921	EP 88302051	A	19880309	198838	B
US 4777073	A	19881011	US 8724503	A	19870311	198843	
AU 8812871	A	19880915				198845	
JP 63276529	A	19881114	JP 8857336	A	19880310	198851	
CA 1322082	C	19930914	CA 560718	A	19880307	199343	
EP 283200	B1	19940810	EP 88302051	A	19880309	199431	
DE 3850987	G	19940915	DE 3850987	A	19880309	199436	
			EP 88302051	A	19880309		

Priority Applications (No Type Date): US 8724503 A 19870311

Cited Patents: 1.Jnl.Ref; A3...9034; DE 3436065; EP 232060; FR 2074338; JP

51030856; No-SR.Pub; US 3407253; US 4135023; US 4350655; US 4472328

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

EP 283200 A E 7

Designated States (Regional): AT BE CH DE FR GB IT LI LU NL SE

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EP 283200 B1 E 9 B29D-007/00

Designated States (Regional): AT BE CH DE FR GB IT LI LU NL SE

DE 3850987 G B29D-007/00 Based on patent EP 283200

CA 1322082 C C08J-005/18

Abstract (Basic): EP 283200 A

A permeable film is made by (a) mixing a polyolefin with a filler,

(b) extruding a precursor film from the mixt., (c) melt-embossing the

film to impose a pattern of different film thicknesses and (d) stretching the film to impart greater permeability in the areas of reduced thickness in comparison with the areas of greater thickness.

Pref. polymer is a copolymer of ethylene and a 4-10C alpha-olefin

and the filler is CaCO<sub>3</sub> surface treated with Ca stearate. The mixt. contains 15-35 vols.% of filler.

USE/ADVANTAGE - The films are permeable to gas and vapour and impermeable to liq.. Permeability and strength, esp. tear strength, are

better. Uses include diaper back sheets, light wt. camping and

backpacking equipment, medical and surgical supplies (e.g. burn dressings, sterile packaging), apparel (rain coats, shoe linings), household furnishings, non-fogging packaging film, bacteria filters,  
water purification filters and wind insulation of houses and buildings.

Abstract (Equivalent): EP 283200 B

Method of making a breathable film comprising the steps of:  
mixing  
a linear low density polyethylene copolymer produced by  
polymerising  
ethylene with a 4-10C alpha olefin with a filler, extruding a  
precursor  
film from the copolymer/filler mixture, melt embossing the film to  
impose therein a pattern of areas of different film thicknesses,  
and  
stretching the film to impart greater vapor permeability in areas  
of  
reduced thickness in comparison to areas of greater thickness.

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Abstract (Equivalent): US 4777073 A

Prodn. of films which are porous to gases or vapours but not to  
liqs. comprises dispersion of a polyolefine with filler (15-35  
wt.%);  
extrusion to obtain a film, which is then melt embossed to impose a  
pattern of variable film thickness; and stretching at temps. below  
the  
softening pt. Pref. polyolefine is a copolymer of ethylene and a 4-  
10C  
alk-1-ene. Pref. filler is CaCO<sub>3</sub> which has been surface-treated  
with Ca  
stearate.

Derwent Class: A17; A32; A94; D22; F07; P73

International Patent Class (Main): B29D-007/00; C08J-005/18

International Patent Class (Additional): B29C-055/02; B29C-059/00;  
B29C-067/20; B29C-069/00; B29K-023/00; B29K-105-04; B32B-003/12;  
B32B-005/22; D02J-001/06

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